



## SEQUENCE LISTING

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Schouten, Govert Johan  
Uytdehaag, Alphonsus Gerardus Cornelis Maria  
Bout, Abraham

<120> RECOMBINANT PROTEIN PRODUCTION IN A HUMAN CELL

<130> 4038.1US

<140> 09/549,463

<141> 2000-04-14

<150> 06/129,452

<151> 1999-04-15

<160> 32

<170> PatentIn version 3.1

<210> 1

<211> 41

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR Primer-DHFR up, synthesized sequence

<400> 1

gatccacgtg agatctccac catggttggt tcgctaaact g

41

<210> 2

<211> 37

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR Primer-DHFR down, synthesized sequence

<400> 2

gatccacgtg agatctttaa tcattcttct catatac

37

<210> 3

<211> 85

<212> DNA

<213> Artificial Sequence

<220>

<223> polylinker fragment, synthesized sequence, restriction fragment from digest  
ion of pIPspAdapt 6 with AgeI and Bam HI

<400> 3

accggtgaat tcggcgcgcc gtcgacgata tcgatcggac cgacgcgttc gcgagcggcc

60

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gcaattcgct agcggttaacg gatcc

85

<210> 4  
<211> 86  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> polylinker fragment, synthesized sequence, restriction fragment from digest  
ion of pIPspAdapt7 with AgeI and Bam HI

<400> 4  
accggtgaat tgcggccgct cgccaacgcg tcggtccgta tcgatatcgt cgacggcgcg 60  
ccgaattcgc tagcgtaac ggatcc 86

<210> 5  
<211> 43  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> PCR Primer-EPO-START, synthesized sequence

<400> 5  
aaaaaggatc cgccaccatg ggggtgcacg aatgtcctgc ctg 43

<210> 6  
<211> 38  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> PCR Primer-EPO-STOP, synthesized sequence

<400> 6  
aaaaaggatc ctcacatctgtc ccctgtcctg caggcctc 38

<210> 7  
<211> 47  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> PCR Primer-LTR-1, synthesized sequence

<400> 7  
ctgtacgtac cagtgcactg gcctaggcat ggaaaaatac ataactg 47

<210> 8  
<211> 64  
<212> DNA  
<213> Artificial Sequence

<220>

<223> PCR Primer-LTR-2, synthesized sequence

<400> 8

gcggatcctt cgaaccatgg taagcttggt accgctagcg ttaaccgggc gactcagtc 60

atcg 64

<210> 9

<211> 28

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR Primer-HSA1, synthesized sequence

<400> 9

gcgccacccat gggcagagcg atggtggc 28

<210> 10

<211> 50

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR Primer-HSA2, synthesized sequence

<400> 10

gttagatcta agcttgtcga catcgatcta ctaacagtag agatgtagaa 50

<210> 11

<211> 10

<212> DNA

<213> Artificial Sequence

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<223> Oligonucleotide, synthesized sequence, EcoRI linker

<400> 11

ttaagtcgac 10

<210> 12

<211> 10

<212> DNA

<213> Artificial Sequence

<220>

<223> oligonucleotide, synthesized sequence, EcoRI linker

<400> 12

ttaagtcgac 10

<210> 13

<211> 23

<212> DNA  
<213> Artificial Sequence

<220>  
<223> oligonucleotide, synthesized sequence, PacI linker

<400> 13  
aattgtctta attaaccgct taa 23

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<210> 14  
<211> 67  
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<223> oligonucleotide, synthesized sequence, PLL-1

<400> 14  
gccatcccta ggaagcttgg taccggtgaa ttcgctagcg ttaacggatc ctctagacga 60

gatctgg 67

<210> 15  
<211> 67  
<212> DNA  
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<220>  
<223> oligonucleotide, synthesized sequence, PLL-2

<400> 15  
ccagatctcg tctagaggat ccgttaacgc tagcgaattc accggtacca agcttcctag 60

ggatggc 67

<210> 16  
<211> 39  
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<220>  
<223> PCR Primer-CMVplus, synthesized sequence

<400> 16  
gatcggtagc actgcagtgg tcaatattgg ccattagcc 39

<210> 17  
<211> 29  
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<220>  
<223> PCR Primer-CMVminA, synthesized sequence

<400> 17

gatcaagctt ccaatgcacc gtccccggc

29

<210> 18  
<211> 34  
<212> DNA  
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<220>  
<223> PCR Primer-CAMH-UP, synthesized sequence

<400> 18  
gatcgatatc gctagcacca agggcccatc ggtc

34

<210> 19  
<211> 30  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> PCR Primer-CAMH-DOWN, synthesized sequence

<400> 19  
gatcgtttaa actcatttac ccggagacag

30

<210> 20  
<211> 28  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> PCR Primer-CAML-UP, synthesized sequence

<400> 20  
gatccgtacg gtggctgcac catctgtc

28

<210> 21  
<211> 31  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> PCR Primer-CAML-DOWN, synthesized sequence

<400> 21  
gatcgtttaa acctaact ctccccctgtt g

31

<210> 22  
<211> 20  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> leader peptide sequence, synthesized sequence

<400> 22

Met Ala Cys Pro Gly Phe Leu Trp Ala Leu Val Ile Ser Thr Cys Leu  
1 5 10 15

Glu Phe Ser Met  
20

C1  
Agmt.  
<210> 23

<211> 60

<212> DNA

<213> Artificial Sequence

<220>

<223> oligonucleotide-leader peptide coding sequence, synthesized sequence

<400> 23

atggcatgcc ctggcttcct gtgggcactt gtgatctcca cctgtcttga attttccatg 60

<210> 24

<211> 38

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR Primer-UBS-UP, synthesized sequence

<400> 24

gatcacgcgt gctagccacc atggcatgcc ctggcttc 38

<210> 25

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> leader peptide, synthesized sequence

<400> 25

Met Ala Cys Pro Gly Phe Leu Trp Ala Leu Val Ile Ser Thr Cys Leu  
1 5 10 15

Glu Phe Ser Met  
20

<210> 26

<211> 60

<212> DNA

<213> Artificial Sequence

<220>

<223> oligonucleotide-leader peptide coding sequence, synthesized sequence

<400> 26  
atggcatgcc ctggcttcct gtgggcactt gtgatctcca cctgtcttga attttccatg 60

<210> 27  
<211> 28  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> oligonucleotide, synthesized sequence, PCR product generated using primers  
UBS-UP and UBSHV-DOWN on template pNUT-Cgamma

<400> 27  
gatcgctagc tgtcgagacg gtgaccag 28

<210> 28  
<211> 29  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> oligonucleotide, synthesized sequence, PCR product generated using primers  
UBS-UP and UBSLV-DOWN on template pNUT-Ckappa

<400> 28  
gatccgtacg cttgatctcc accttggtc 29

<210> 29  
<211> 50  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> PCR Primer-15C5-UP, synthesized sequence

<400> 29  
gatcacgcgt gctagccacc atgggtactc ctgctcagtt tcttggaatc 50

<210> 30  
<211> 41  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> PCR Primer-HA1 forward primer, synthesized sequence

<400> 30  
attggcgcgc caccatgaag actatcattg ctttgagcta c 41

<210> 31  
<211> 39  
<212> DNA  
<213> Artificial Sequence

<220>

<223> PCR Primer-HA1 reverse primer, synthesized sequence

<400> 31

gatgctagct catctagttt gtttttctgg tatattccg

39

<210> 32

<211> 42

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR Primer-HA2 reverse primer, synthesized sequence

<400> 32

gatgctagct cagtctttgt atcctgactt cagttcaaca cc

42